

Figure 1

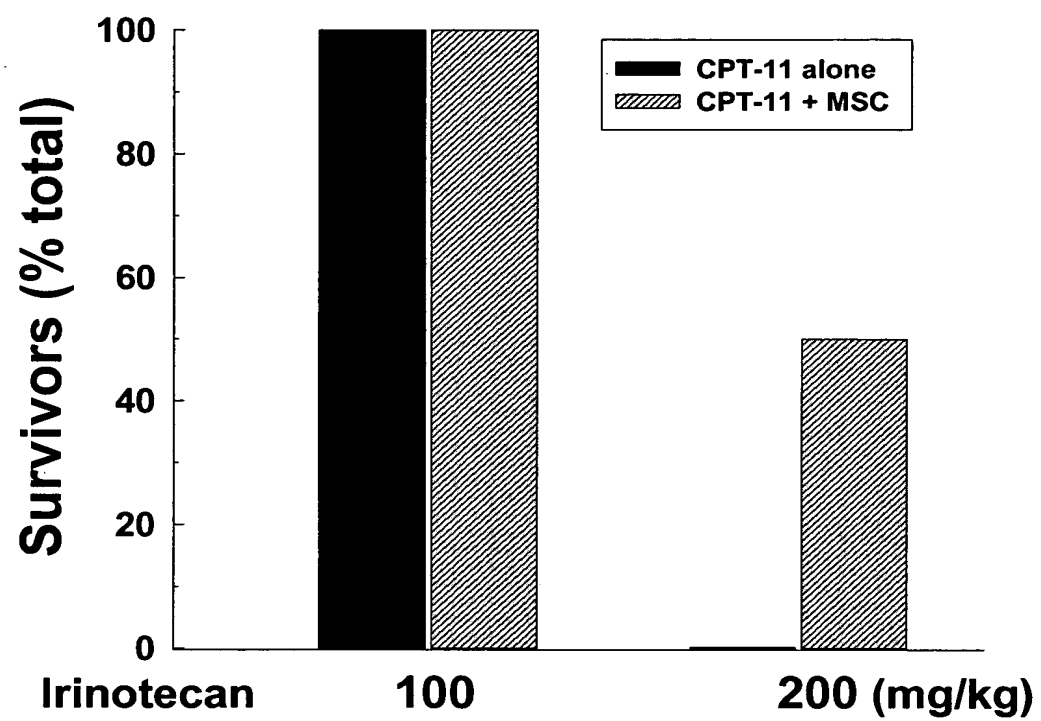


Figure 2

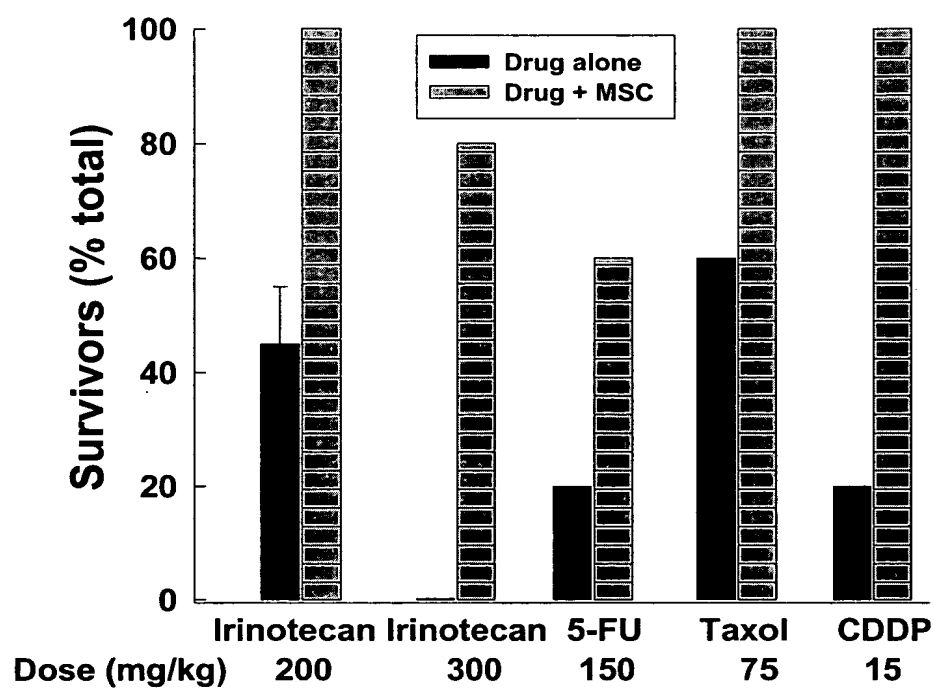


Figure 3

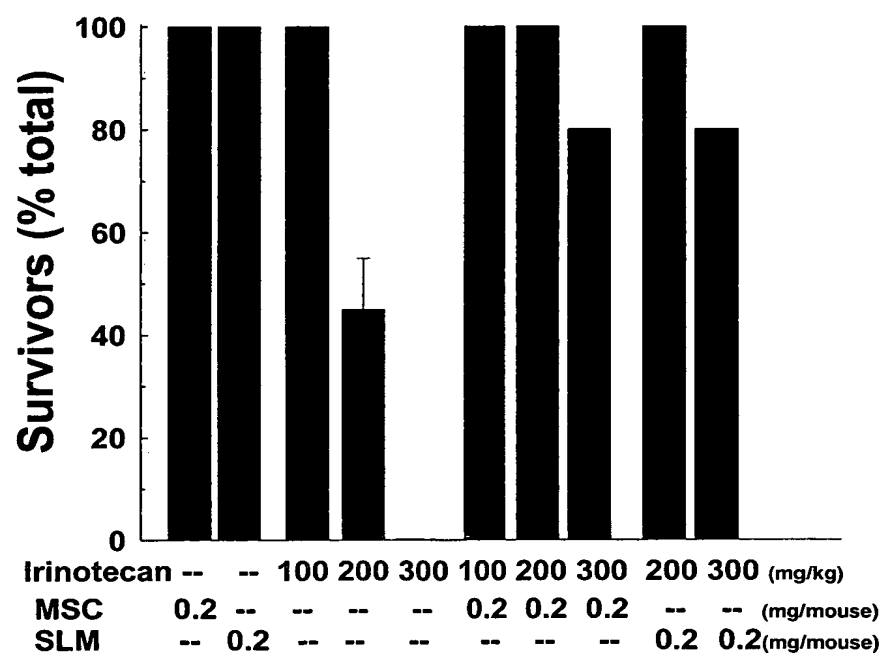


Figure 4

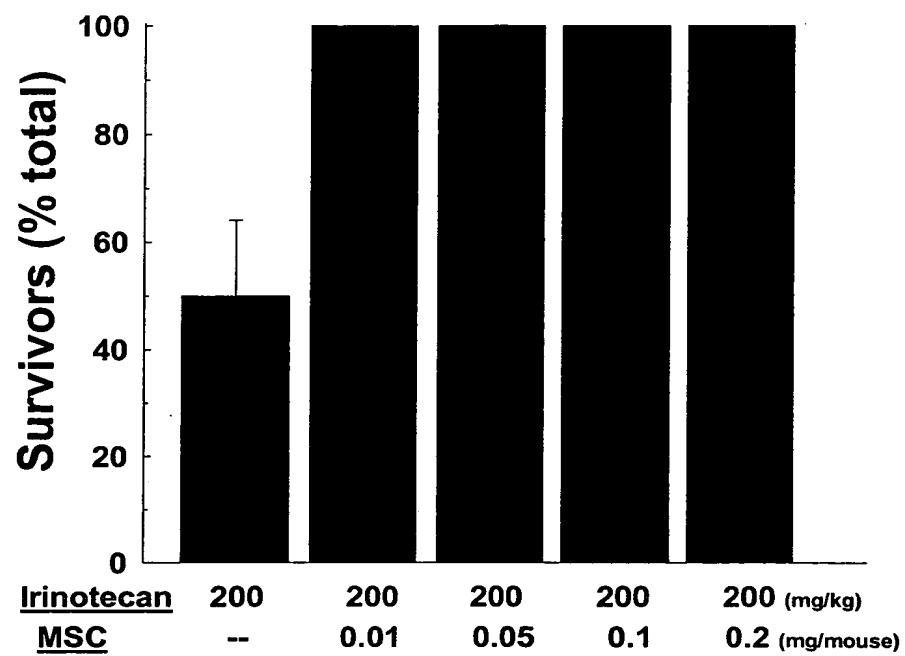


Figure 5

**Hematological changes of Irinotecan ± MSC in nude mice on day 22  
after initial treatment of Irinotecan (24h after third dose)**

| <u>Treatment</u>                        | <u>WBC</u> | <u>RBC</u> | <u>HGB</u> | <u>HCT</u> | <u>MCV</u> | <u>MCH</u> | <u>MCHC</u> | <u>PLT</u> |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|
| <u>Control</u>                          | 9.4±3.6    | 8.7±0.9    | 16.1±1.6   | 46.1±2.1   | 53.4±1.0   | 18.6±0.1   | 34.5±0.6    | 1118±415   |
| <u>MSC(0.2)*</u>                        | 10.3±4.5   | 9.1±0.5    | 16.8±0.7   | 49.4±2.4   | 54.0±1.0   | 18.4±0.7   | 34.0±0.7    | 756±231    |
| <u>Irinotecan(200)**</u>                | 3.5±0.5    | 7.8±1.0    | 13.8±1.9   | 40.9±4.2   | 52.8±0.8   | 17.5±0.3   | 32.7±0.6    | 836±201    |
| <u>Irinotecan(200)**<br/>+MSC(0.2)*</u> | 8.2±3.1    | 8.5±0.5    | 15.4±0.7   | 44.8±1.8   | 52.8±1.5   | 18.0±0.5   | 34.0±0.6    | 1174±152   |

Figure 6

Figure 7A

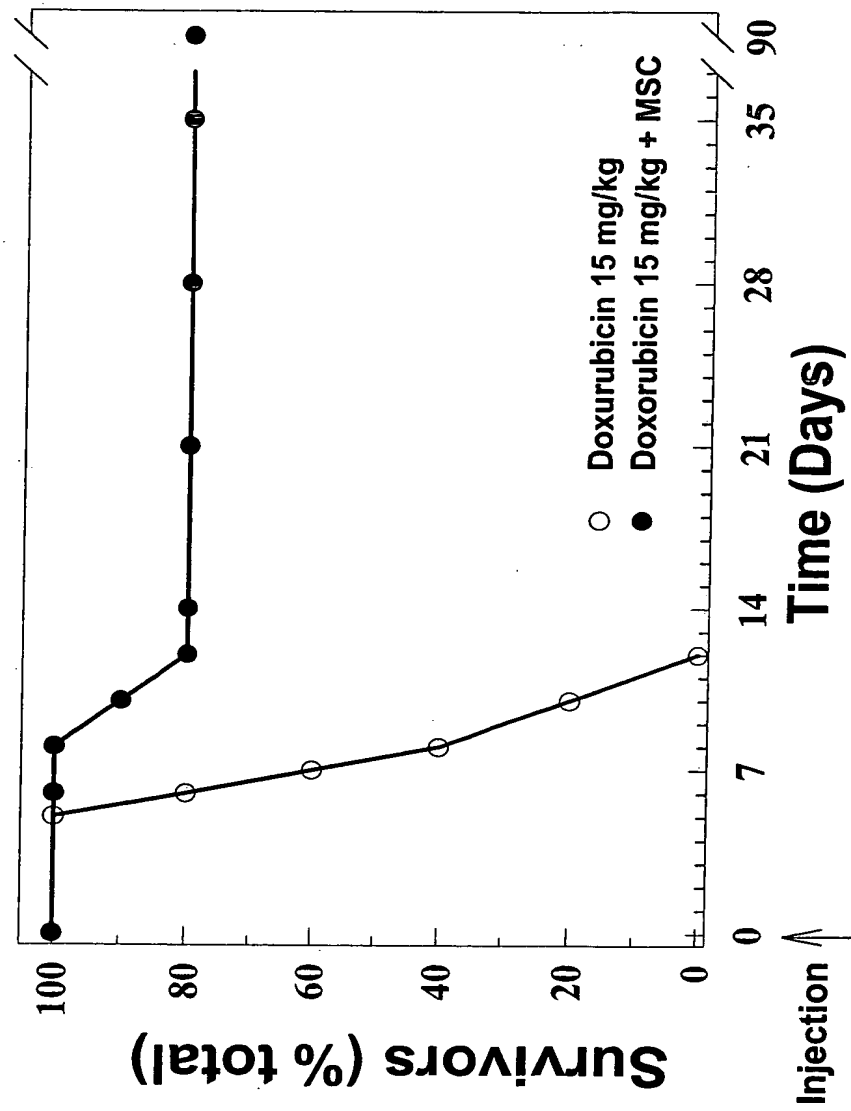


Figure 7B

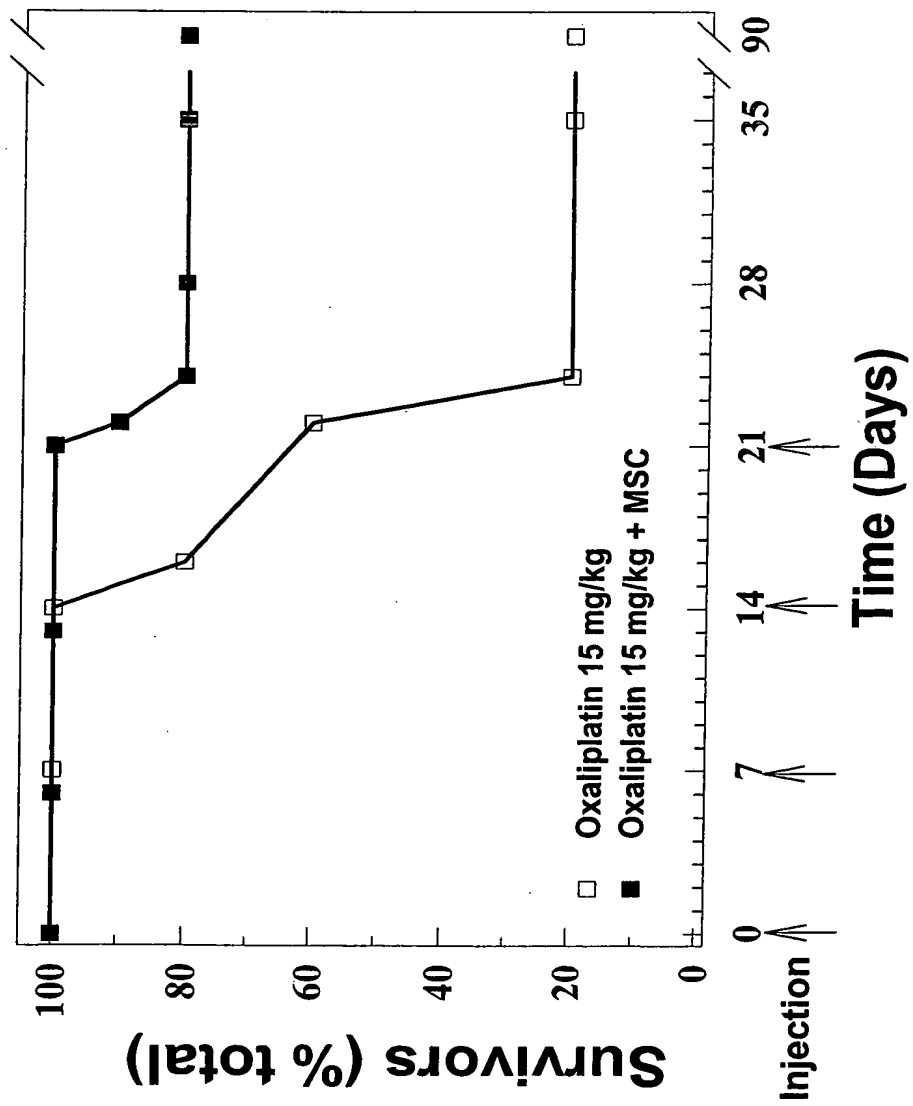




Figure 8

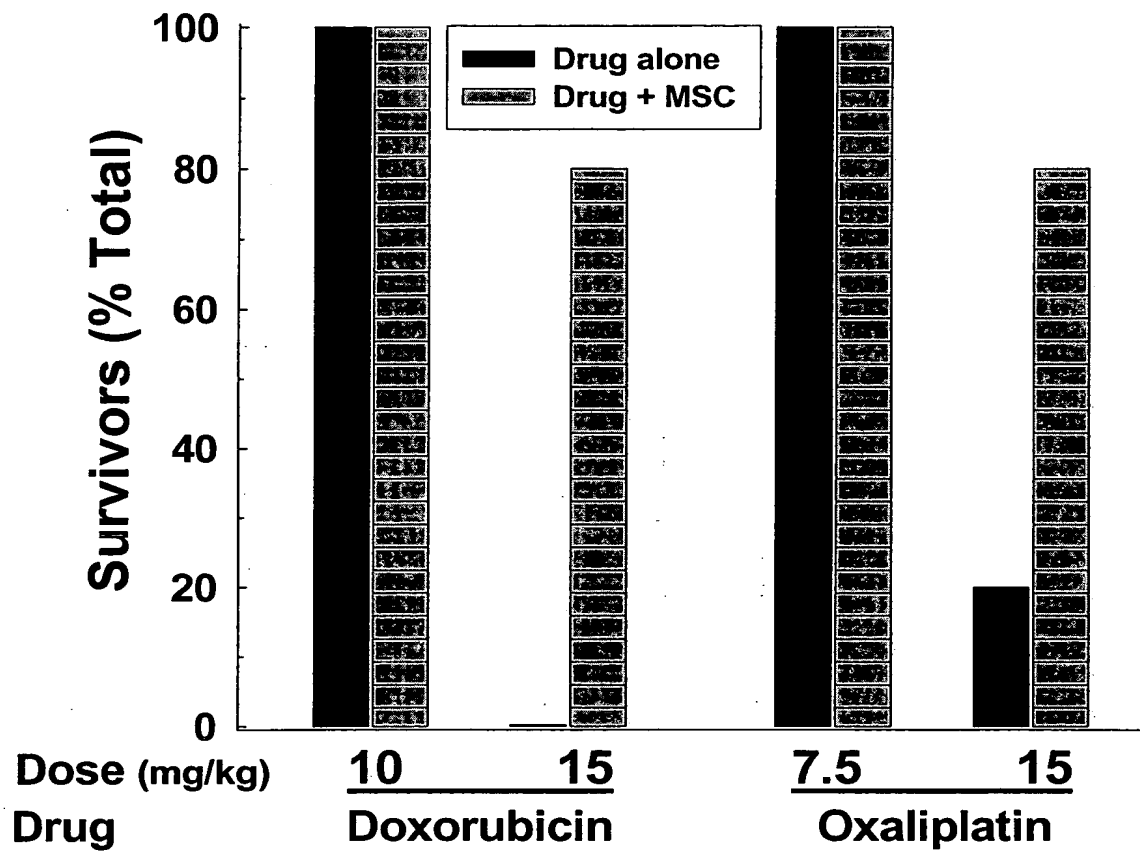


Figure 9

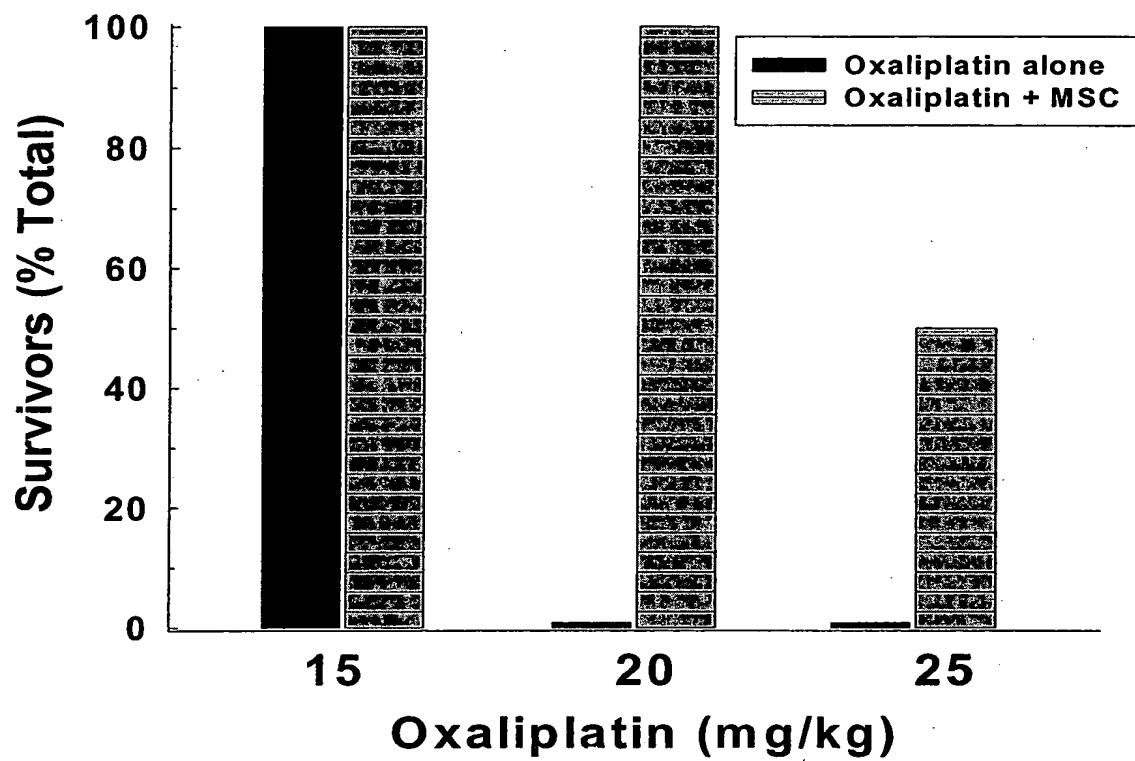


Figure 10

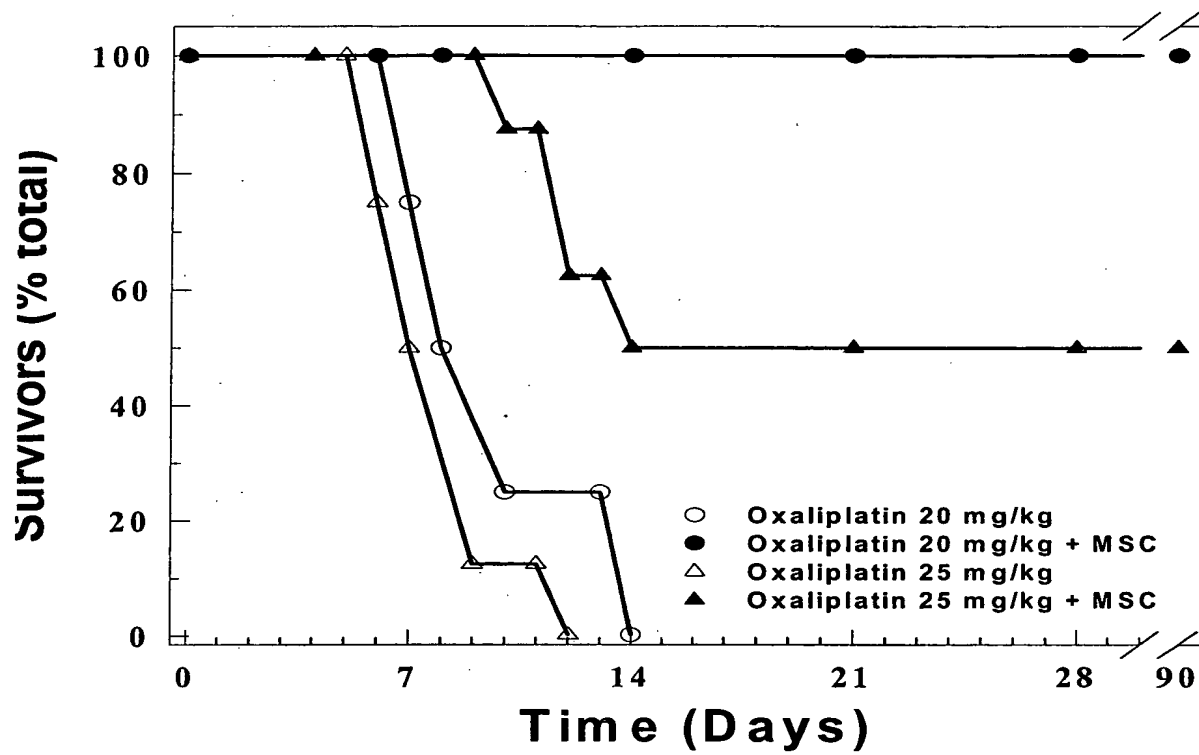


Figure 11

# **Hematological changes induced by Oxaliplatin $\pm$ MSC in nude mice on day 5 after Oxaliplatin treatment**

| Treatment                     | WBC            | RBC            | HGB            | HCT            | MCV            | MCH            | MCHC           | PLT            |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Control                       | 2.69 $\pm$ 1.6 | 8.75 $\pm$ 0.9 | 14.9 $\pm$ 1.4 | 46.7 $\pm$ 4.1 | 53.3 $\pm$ 0.9 | 17.1 $\pm$ 0.4 | 32.0 $\pm$ 0.2 | 972 $\pm$ 166  |
| MSC(0.2)*                     | 3.45 $\pm$ 2.4 | 8.30 $\pm$ 0.8 | 14.0 $\pm$ 1.4 | 44.8 $\pm$ 4.2 | 54.0 $\pm$ 1.2 | 16.8 $\pm$ 0.4 | 31.2 $\pm$ 0.5 | 1305 $\pm$ 233 |
| Oxaliplatin(15)**             | 0.90 $\pm$ 0.8 | 7.49 $\pm$ 0.6 | 12.7 $\pm$ 0.9 | 39.5 $\pm$ 3.0 | 52.8 $\pm$ 0.9 | 17.0 $\pm$ 0.4 | 32.3 $\pm$ 0.8 | 605 $\pm$ 75   |
| MSC(0.2)* + Oxaliplatin(15)** | 2.91 $\pm$ 1.6 | 7.10 $\pm$ 1.1 | 12.3 $\pm$ 1.9 | 38.4 $\pm$ 5.7 | 54.1 $\pm$ 1.3 | 17.4 $\pm$ 0.1 | 32.1 $\pm$ 0.8 | 922 $\pm$ 214  |

Figure 12

**White blood cells and platelets changes induced by Oxaliplatin ± MSC in nude mice**

| Treatment                     | <u>White Blood Cells</u> |           | <u>Neutrophils</u> |           | <u>Platelets</u> |           |
|-------------------------------|--------------------------|-----------|--------------------|-----------|------------------|-----------|
|                               | #(1000/CU MM)            | % Control | #(1000/CU MM)      | % Control | #(1000/CU MM)    | % Control |
| Control                       | 2.69 ± 1.6               | 100 %     | 0.75 ± 0.31        | 100 %     | 972 ± 166        | 100 %     |
| MSC(0.2)                      | 3.45 ± 2.4               | 128 %     | 0.97 ± 0.30        | 129 %     | 1305 ± 233       | 134 %     |
| Oxaliplatin(15)               | 0.90 ± 0.8               | 33 %      | 0.19 ± 0.10        | 25 %      | 605 ± 75         | 62 %      |
| MSC(0.2) +<br>Oxaliplatin(15) | 2.91 ± 1.6               | 108 %     | 0.85 ± 0.50        | 113 %     | 922 ± 214        | 95 %      |

Figure 13

**Differential WBC counts (%) in nude mice on day 5 after Oxaliplatin ± MSC treatment**

| Treatment                       | Neutrophils | Lymphocytes | Monocytes   | Eosinophis | Basophils  | LUC         |
|---------------------------------|-------------|-------------|-------------|------------|------------|-------------|
| Control                         | 27.9 ± 11.4 | 52.5 ± 18.8 | 0.78 ± 0.31 | 1.2 ± 0.5  | 2.90 ± 1.3 | 15.2 ± 19.1 |
| MSC(0.2)                        | 28.2 ± 8.7  | 64.1 ± 4.9  | 0.40 ± 0.29 | 1.1 ± 0.5  | 0.98 ± 0.4 | 5.2 ± 6.9   |
| Oxaliplatin (15)                | 21.4 ± 11.0 | 65.0 ± 12.8 | 0.46 ± 0.54 | 1.4 ± 2.3  | 1.60 ± 1.3 | 9.9 ± 9.0   |
| MSC (0.2) +<br>Oxaliplatin (15) | 29.2 ± 17.4 | 48.2 ± 6.1  | 1.94 ± 1.84 | 1.1 ± 0.5  | 2.10 ± 1.7 | 19.4 ± 17.2 |